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February 2008 Communications of the ACM
Publisher: ACM

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2 [A digital rights enabled graphics processing system](#)

[Weidong Shi, Hsien-Hsin S. Lee, Richard M. Yoo, Alexandra Boldyreva](#)

September GH '06: Proceedings of the 21st ACM SIGGRAPH/Eurographics 2006 symposium on Graphics hardware

Publisher: ACM

Full text available: [Publisher Site](#)

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With the emergence of 3D graphics/arts assets commerce on the Internet, to protect their intellectual property and to restrict their usage have become a new design challenge. This paper presents a novel protection model for commercial graphics data by ...

3 [Securing the commercial Internet](#)

[Anish Bhimani](#)

June 1996 Communications of the ACM , Volume 39 Issue 6

Publisher: ACM

Full text available: [Pdf](#) (1.14 MB)

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4 [Communications of the ACM: Volume 51 Issue 11](#)

November 2008 Communications of the ACM

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5 [Silicon physical random functions](#)



[Blaise Gassend](#), [Dwayne Clarke](#), [Marten van Dijk](#), [Srinivas Devadas](#)

November 2002 CCS '02: Proceedings of the 9th ACM conference on Computer and communications security

Publisher: ACM

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We introduce the notion of a Physical Random Function (PUF). We argue that a complex integrated circuit can be viewed as a silicon PUF and describe a technique to identify and authenticate individual integrated circuits (ICs). We describe several possible ...

Keywords: identification, physical random function, physical security, smartcard, tamper resistance, unclonability

6 [Digital rights management using a mobile phone](#)



[Imad M. Abbadi](#), [Chris J. Mitchell](#)

August 2007 I CEC '07: Proceedings of the ninth international conference on Electronic commerce

Publisher: ACM

Full text available: Pdf (497.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 194, Citation Count: 0

This paper focuses on the problem of preventing illegal copying of digital assets without jeopardising the right of legitimate licence holders to transfer content between their own devices, which make up a domain. Our novel idea involves the use of a ...

Keywords: 3GPP GAA, DRM, access control, authorised domain management, copyright protection, trusted computing

7 [Practical byzantine fault tolerance and proactive recovery](#)



[Miguel Castro](#), [Barbara Liskov](#)

November 2002 Transactions on Computer Systems (TOCS) , Volume 20 Issue 4

Publisher: ACM

Full text available: Pdf (1.63 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

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Our growing reliance on online services accessible on the Internet demands highly available systems that provide correct service without interruptions. Software bugs, operator mistakes, and malicious attacks are a major cause of service interruptions ...

Keywords: Byzantine fault tolerance, asynchronous systems, proactive recovery, state machine replication, state transfer

8 [Hardening Web browsers against man-in-the-middle and eavesdropping attacks](#)



[Haidong Xia](#), [José Carlos Brustoloni](#)

May W W W '05: Proceedings of the 14th international conference on World Wide Web 2005

Publisher: ACM

Full text available: Pdf (770.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 261, Citation Count: 4

Existing Web browsers handle security errors in a manner that often confuses users. In particular, when a user visits a secure site whose certificate the browser cannot verify, the browser typically allows the user to view and install the certificate ...

Keywords: HTTPS, SSL, Web browser, certificate, eavesdropping attack, just-in-time instruction, man-in-the-middle attack, password, safe staging, well-in-advance instruction

9 [Public-key cryptography and password protocols](#)



[Shai Halevi](#), [Hugo Krawczyk](#)

August Transactions on Information and System Security (TISSEC), 1999 Volume 2 Issue 3

Publisher: ACM

Full text available: Pdf (275.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 71, Downloads (12 Months): 342, Citation Count: 12

We study protocols for strong authentication and key exchange in asymmetric scenarios where the authentication server possesses ~ a pair of private and public keys while the client has only a weak human-memorizable password as its authentication key. ...

Keywords: dictionary attacks, hand-held certificates, key exchange, passwords, public passwords, public-key protocols

10 [Designing a distributed access control processor for network services on the Web](#)



[Reiner Kraft](#)

November XMLSEC '02: Proceedings of the 2002 ACM workshop on XML security 2002

Publisher: ACM

Full text available: Pdf (301.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)





Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 176, Citation Count: 4

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is ...

Keywords: Web services, XML, access control, security

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